## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 14 April 2005 (14.04.2005)

**PCT** 

## (10) International Publication Number WO 2005/033149 A1

(51) International Patent Classification<sup>7</sup>: G01N 33/53

C08B 37/00,

(21) International Application Number:

PCT/US2004/032341

(22) International Filing Date: 1 October 2004 (01.10.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/507,514

2 October 2003 (02.10.2003) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: RECEPTOR SPECIFIC BINDER DISCOVERY USING INTRAMOLECULAR ACYL MIGRATION INDUCED DYNAMIC CARBOHYDRATE LIBRARY

(57) Abstract: An efficient molecular evolution system was obtained by combining two novel approaches in the field, intramolecular acyl migration for DCL generation and boronic acid as a selector. 1,4-Di-O-benzoyl chiro-inositol in acetonitrile with DBU as a base generated a reversible equilibrium of 9 regioisomers. Only 3,4-di-O-benzoyl chiro-inositol, containing two sets of cis-diols, is most favored toward binding with phenyl boronic acid, and its percentage of the DCL composition was amplified by up to 82%.

